

FIG. 1

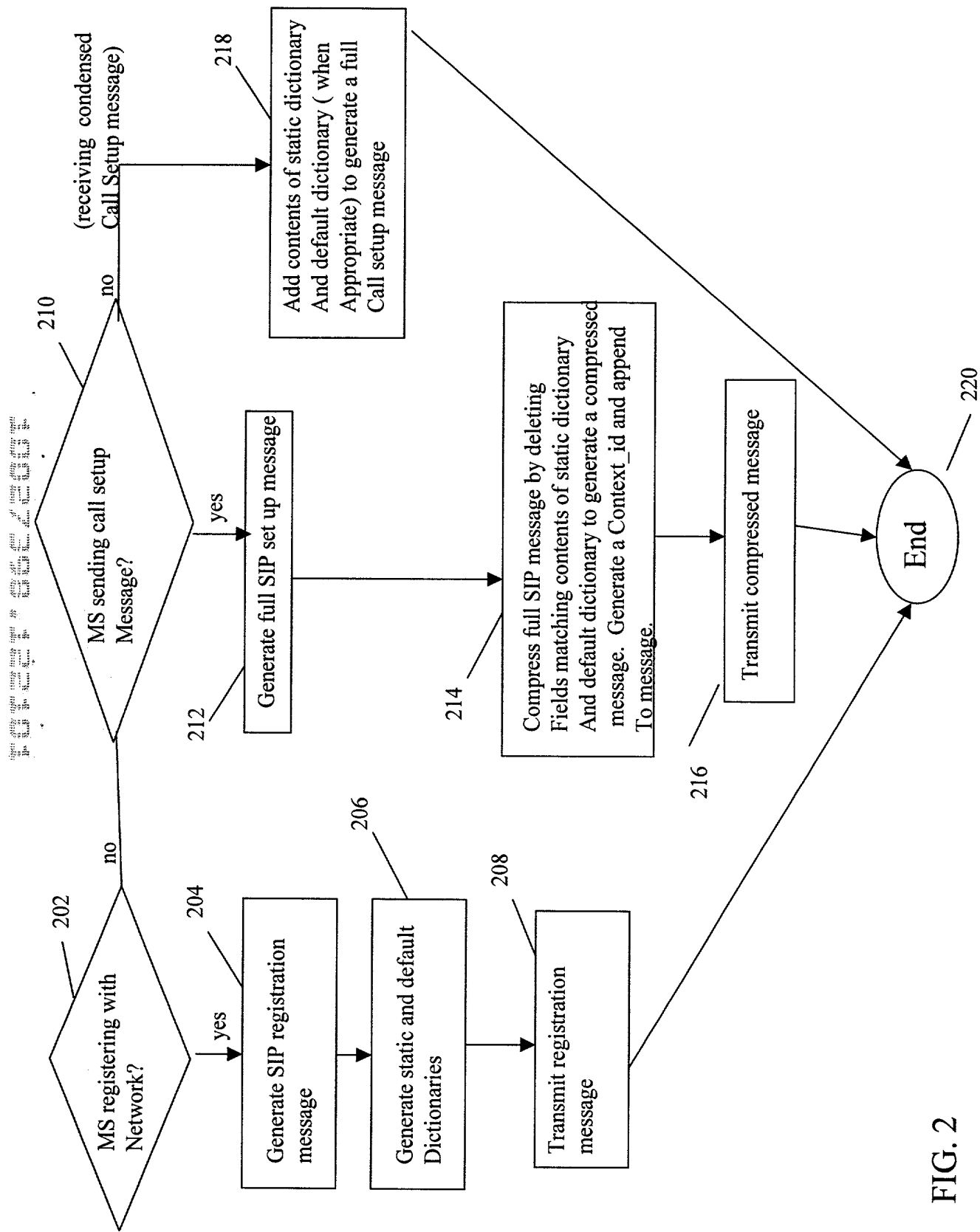


FIG. 2

REGISTER sip:ss1.wcom.com; SIP/2.0
Via: SIP/2.0/UDP ss1.wcom.com:5060
From: BigGuy <sip: 1-314-555-1111@ss1.wcom.com>
To: BigGuy <sip: 1-314-555-1111@ss1.wcom.com>
Call-ID: 123456789@ss1.wcom.com
Cseq: 1 REGISTER
Contact: BigGuy < sip:UserA@here.com>
Contact: sip:+1-314-555-1111@gw1.wcom.com
Authorization: Digest username ="userB" realm ="MCI WorldCom SIP", nonce=.....
Content-Type: application/SDP
Content-Length: 132

FIG. 3

REGISTER message (Cont'd)

v = 0
o = UserA 2890844426 2890844426 IN IP4 ss1.wcom.com
s = Session SDP
c = IN IP4 100. 101. 102. 103
t = 0 0
m = audio 49170 RTP/AVP 0
a = rtpmap:0 PCMU/8000
a = rtpmap:0 l6/4000
m = video 49183 RTP/AVP 98
a = rtpmap:98 L16/16000

FIG. 3a

Static Dictionary

- | | |
|-----|--------------------------|
| 1. | First Line contents |
| 2. | Via: Contents |
| 3. | From: Contents |
| 4. | Content-Type: contents |
| 5. | Content-Length: contents |
| 6. | v = contents |
| 7. | o = contents |
| 8. | s = contents |
| 9. | c = contents |
| 10. | t = contents |

Default Dictionary

- | | |
|----|--|
| 1. | Contact: (first contact address of the register message) |
| 2. | m= audioRTP/AVP 0 |
| 3. | a= rtpmap: 0 PCMU/8000 |

FIG. 4

Static Dictionary

- 1. ssl.wcom.com; SIP/2.0
- 2. Via: SIP/2.0/UDP ssl.wcom.com:5060
- 3. From: BigGuy <sip:1-314-555-1111@ssl.wcom.com>
- 4. Content Type: application/sdp
- 5. Content-Length 132
- 6. v=0
- 7. o=UserA 2890844426 2890844426 IN IP4 ssl.wcom.com
- 8. s=Session SDP
- 9. c=IN IP4 100.101.102.104
- 10. t=0 0

Default Dictionary

- 1. Contact: BigGuy <sip:UserA@here.com>
- 2. m=audioRTP/AVP 0
- 3. a=rtpmap: 0 PCMU/8000

FIG. 5

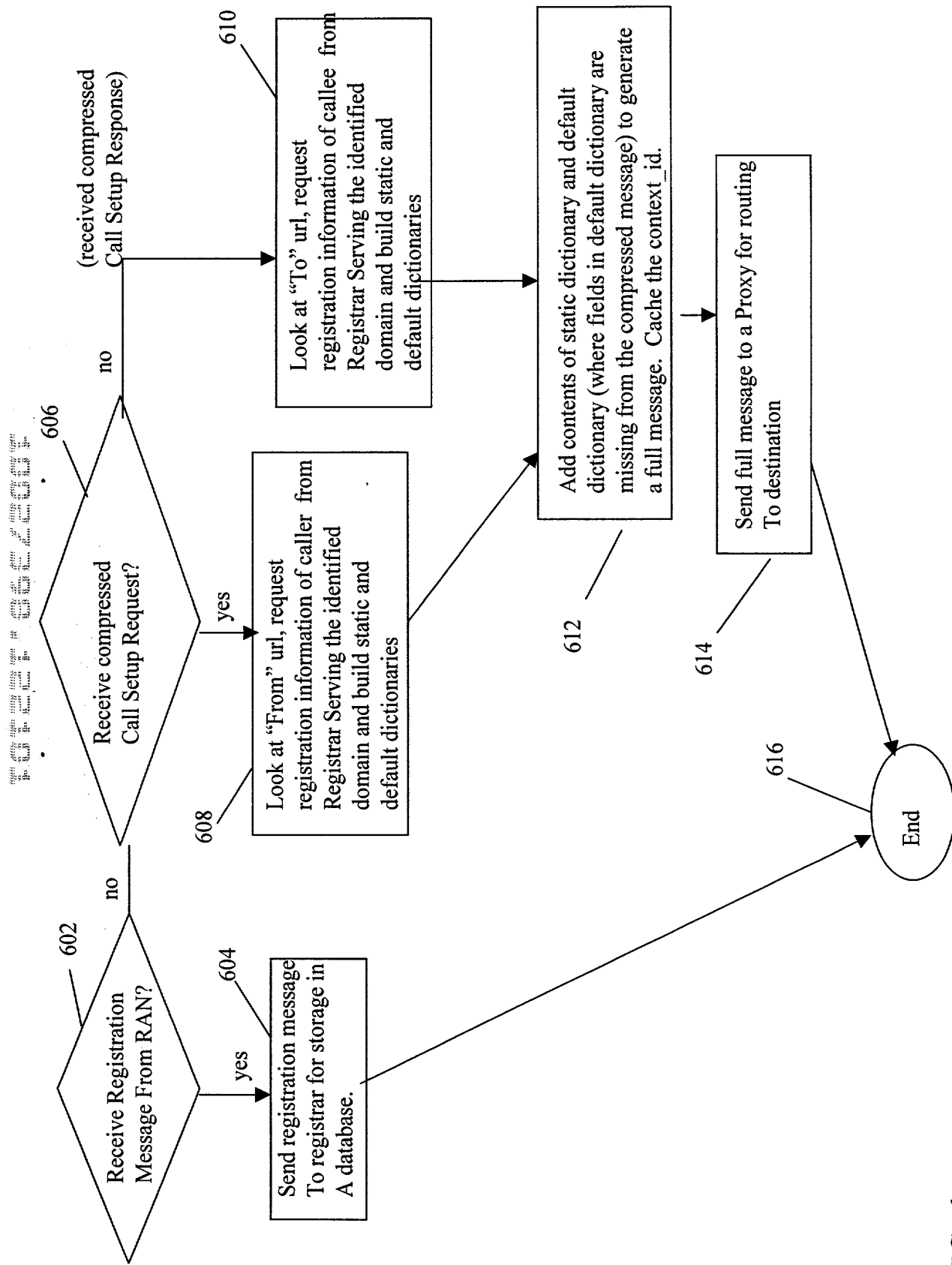


FIG. 6

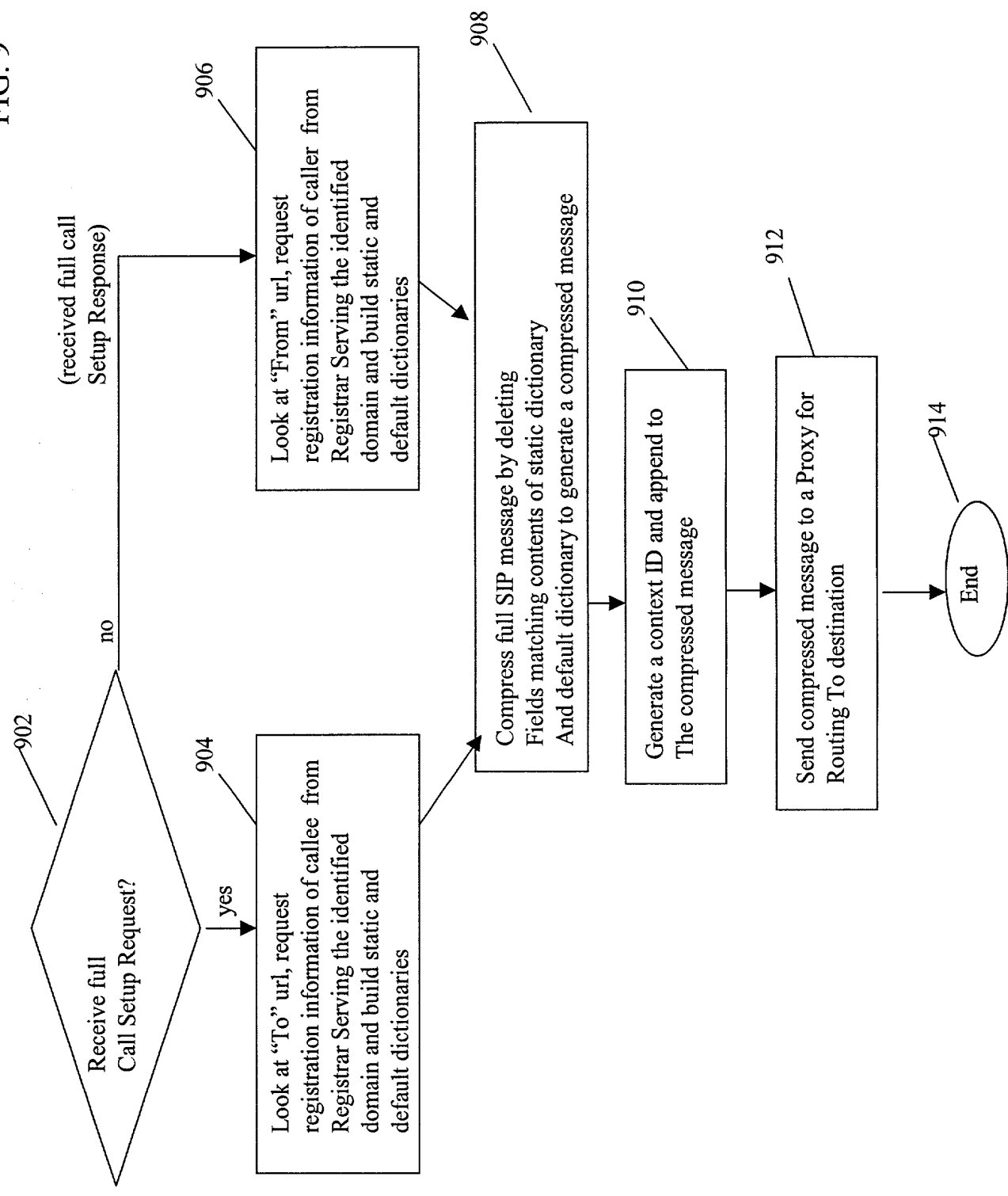
INVITE sip:+1-972-555-2222@ss2.wcom.com;SIP/2.0
Via: SIP/2.0/UDP ss1.wcom.com :5060
From: BigGuy <sip:+1-314-555-1111@ss1.wcom.com;
To: LittleGuy <sip:+1-972-555-2222@ss2.wcom.com>
Call-ID: 12345600@ss1.wcom.com
Cseq: 1 INVITE
Contact: BigGuy <sip:UserA@here.com >
Authorization: <<*done during registration*>>
Content-type: application/sdp
Content-Length 132
v = 0
o = UserA 2890844426 2890844426 IN IP4 ss1.wcom.com
s = Session SDP
c = IN IP4 100.101.102.103
t = 0 0
m = audio 49172 RTP/AVP 0
a = rtpmap:0 PCMU/8000

FIG. 7

INVITE sip:+ 1-972-555-2222
ss1.wcom.com
LittleGuy ss2.wcom.com
12345600
1
49172
Context ID

FIG. 8

FIG. 9



Request messages

1. INVITE
2. ACK
3. OPTIONS
4. BYE
5. CANCEL
6. REGISTER

Response messages

1. 100 TRYING
2. 180 RINGING
3.
4. 200 OK
5.
6. 302 Moved Temporarily
7.
8. 400 Bad Request
9.
10. 500 Internal Server Error

FIG. 10